

# **DoD Deployment Health Information Systems**



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# Terminal Learning Objectives



**Understand the Military Healthcare System IM/IT power architecture**

**Understand what programs constitute the Theater Medical Information Program (TMIP)**

**Understand TMIP's relationship to the Service medical systems**

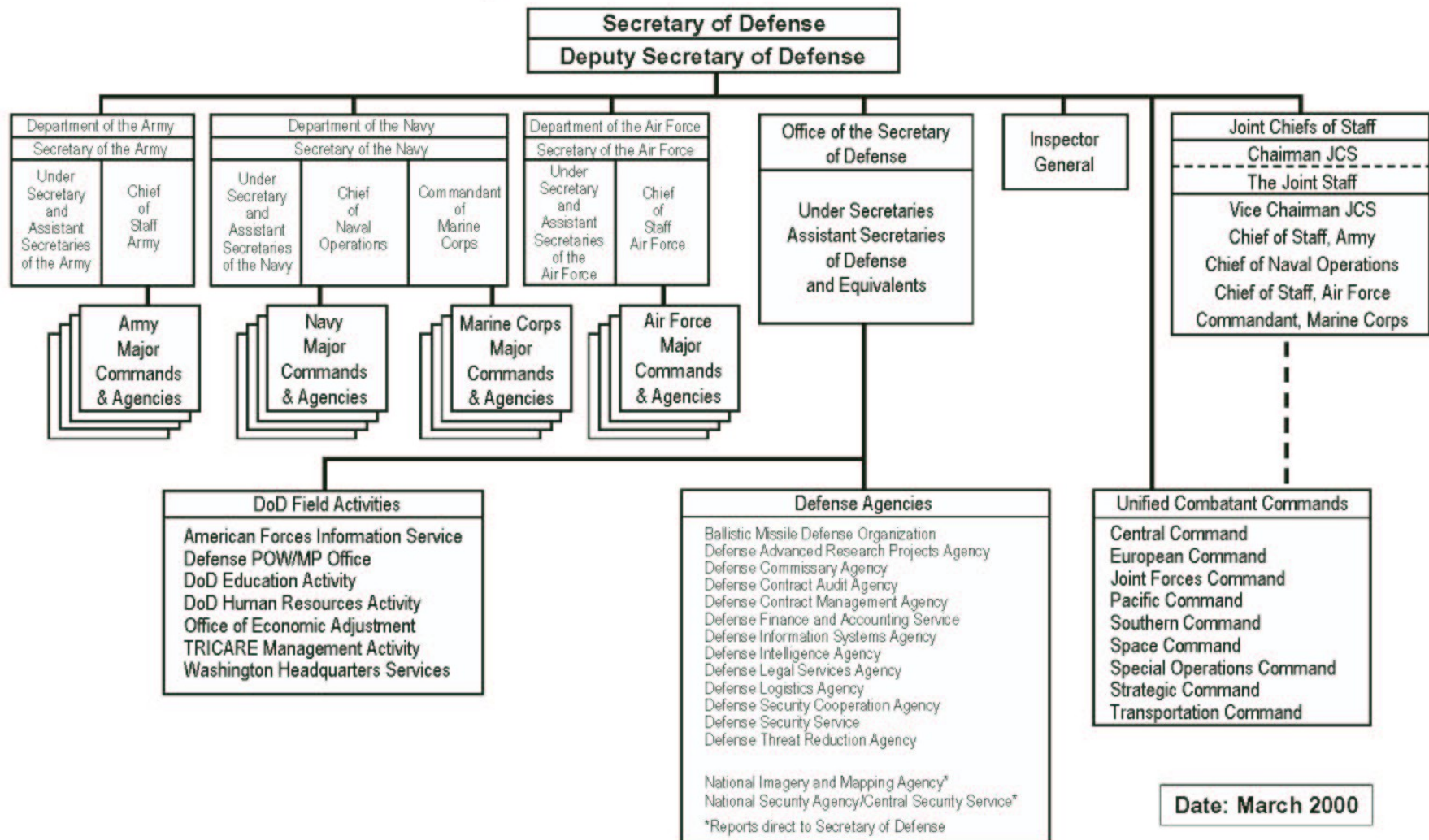


# Agenda

- **DOD IM/IT Medical Infrastructure**
- **TMIP and its components**
- **Service Specific Medical Infrastructure**
- **ESOH IM/IT Infrastructure**
- **Other DoD Systems**
- **Questions**



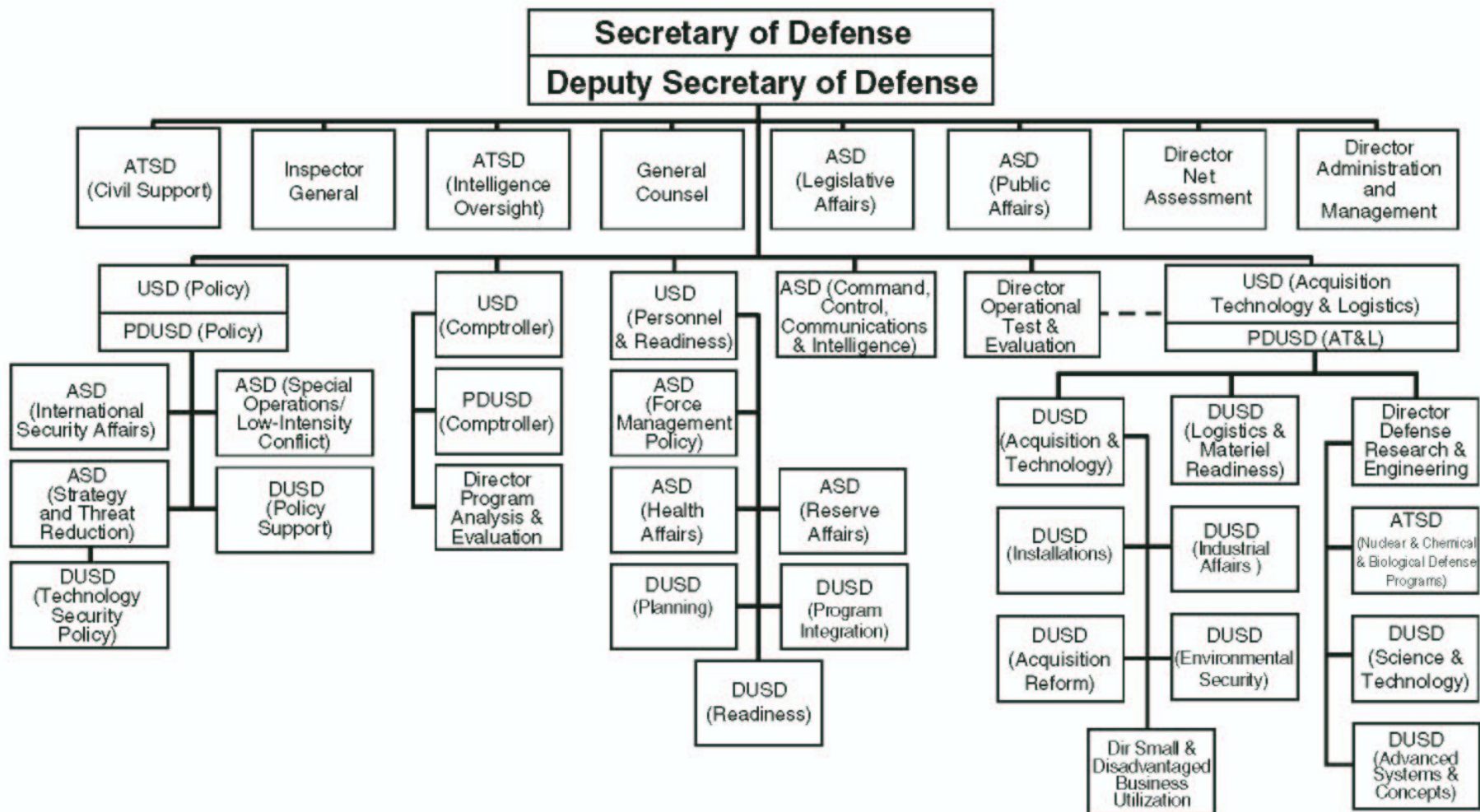
# Department of Defense



**Date: March 2000**



# Office of the Secretary of Defense





# DOD IM/IT Medical Infrastructure



A S D ( H A )

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D A S D ( H B & F P )

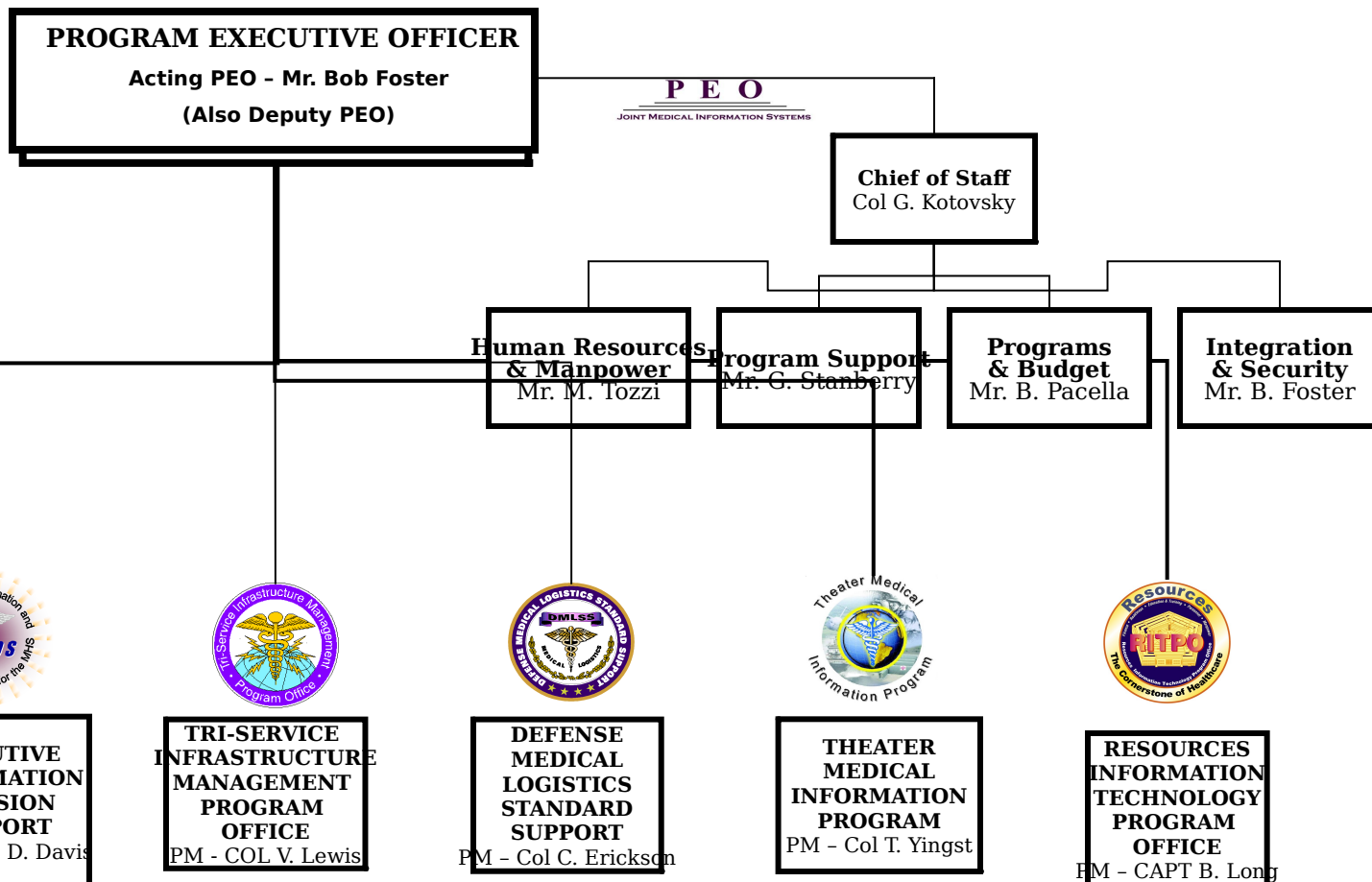
D A S D ( H P A )

C I O

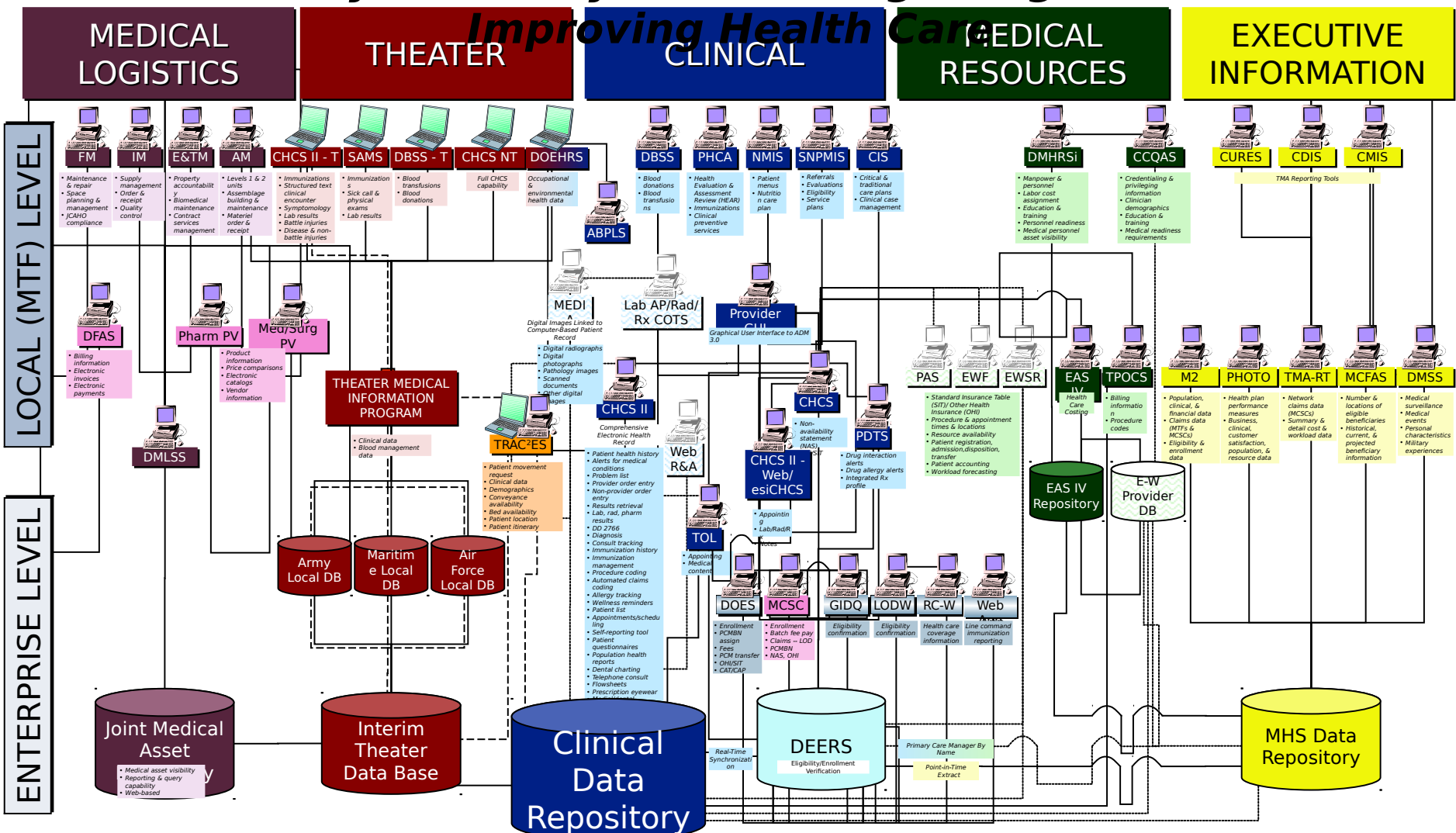




# DOD IM/IT Medical Infrastructure



# The Military Health System -- Integrating Information, Improving Health Care



Information Management Division/TRICARE Management Activity -- AS OF 27 JANUARY 2003

<ul style="list-style-type: none"> <li>--- Data transferred by removable media</li> <li>--- FY 03/04 interface</li> <li>--- FY 03/05 system/database</li> <li>--- Medical Logistics system/database</li> <li>--- MHS external system</li> <li>--- Theater system/database</li> <li>--- Clinical system/database</li> <li>--- TRICARE Next Generation of Contracts system</li> <li>--- Medical Resources system/database</li> <li>--- Executive Information system/database</li> </ul>	<ul style="list-style-type: none"> <li>AM: Assemblage Management</li> <li>DFAS: Defense Finance &amp; Accounting</li> <li>DMLSS: Defense Medical Logistics Standard Support</li> <li>E&amp;TM: Equipment &amp; Technology Management</li> <li>FM: Facilities Management</li> <li>IM: Inventory Management</li> <li>Med/Surg PV: Medical/Surgical Prime Vendor</li> <li>Pharm PV: Pharmaceutical Prime Vendor</li> </ul>	<ul style="list-style-type: none"> <li>CHCS II - T: Composite Health Care System II - Theater</li> <li>CHCS NT: Composite Health Care System NT</li> <li>DB: Database</li> <li>DBSS - T: Defense Blood Standard System - Theater</li> <li>SAMS: Shipboard Automated Medical System</li> <li>TRANSOM: Regulating/Command &amp; Control Evacuation System</li> <li>TRAC/ES: Defense Occupational &amp; Environmental Health Readiness System</li> <li>DOEHRs: Defense Occupational &amp; Environmental Health Readiness System</li> </ul>	<ul style="list-style-type: none"> <li>ABPLS: Automated Blood Product Labeling</li> <li>CHCS: Composite Health Care System</li> <li>CHCS II: Composite Health Care System II</li> <li>CIS: Clinical Information System</li> <li>DBSS: Defense Blood Standard System</li> <li>Lab AP/Rx COTS: Laboratory Anatomical Pathology/Radiology/Pharmacy Commercial off-the-shelf applications (CHCS I Replacement)</li> <li>MEDIA: Military Enterprise Digital Imaging</li> <li>NMIS: Non-availability statement</li> <li>PDS: Pharmacy Data Transaction Service</li> <li>PHCA: Preventive Health Care Application</li> </ul>	<ul style="list-style-type: none"> <li>Provider GUI: Provider Graphical User Interface</li> <li>SNPMIS: Special Needs Program Management Information System</li> <li>TOL: TRICARE Online</li> <li>Web R&amp;A: Web Referrals &amp; Authorizations</li> <li>DEERS: Defense Enrollment/Eligibility Reporting System</li> <li>GIDQ: General Eligibility Inquiry</li> <li>LOWD: Line of Duty - Web Application</li> <li>MCSC: Managed Care Support Contractor</li> <li>RC-W: Reserve Components - Web</li> <li>Web App: Web Application</li> </ul>	<ul style="list-style-type: none"> <li>CCQAS: Centralized Credentials Quality Assurance System</li> <li>EAS IV: Expense Assignment System IV</li> <li>EW: Enterprise-Wide Provider Database</li> <li>EWFS: Enterprise Workload Forecasting</li> <li>EWFSR: Enterprise-Wide Scheduling &amp; Reporting</li> <li>DMHRSI: Defense Medical Human Resource System Internet</li> <li>PAS: Patient Accounting System</li> <li>TPOCS: Third-Party Outpatient Collection System</li> </ul>	<ul style="list-style-type: none"> <li>CDIS: Care Detail Information System</li> <li>CMIS: CHAMPUS/TRICARE Medical Information System</li> <li>CURES: CHAMPUS/TRICARE Utilization Reporting &amp; Evaluation System</li> <li>DMSS: Defense Medical Surveillance System</li> <li>M2: Military Health System (MHS) Management Analysis &amp; Reporting Tool</li> <li>MCFAS: Military Care Forecasting &amp; Analysis System</li> <li>MHS: Military Health System</li> <li>PHOTO: Population Health Operational Tracking &amp; Optimization</li> <li>TMA-RT: TRICARE Management Activity Reporting Tools</li> </ul>
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# TMIP / Joint IM/IT Systems

<b>BMIST</b>	<b>Battlefield Medical Information System</b>
<b>CDR</b>	<b>Telemedicine - Joint</b>
<b>CHCS NT</b>	<b>Clinical Data Repository</b>
<b>CHCS II-T</b>	<b>Composite Health Care System New Technology</b>
<b>DBSS-T</b>	<b>Composite Health Care System II - Theater</b>
<b>DCAM</b>	<b>Defense Blood Standard System - Theater</b>
<b>DMLSS-AM</b>	<b>DMLSS Customer Assistance Module</b>
<b>DMSS</b>	<b>Defense Medical Logistics Standard Support -</b>
<b>ESSENCE</b>	<b>Assemblage Management</b>
<b>FHIE/BHIE</b>	<b>Defense Medical Surveillance System</b>
<b>JMAR</b>	<b>Electronic Surveillance System for the Early Notification</b>
<b>JMeWS</b>	<b>of Community-based Epidemics</b>
<b>JPTA</b>	<b>Federal Health Information Exchange / Bi-directional</b>
<b>MAT</b>	<b>Joint Medical Asset Repository</b>
<b>MDSS</b>	<b>Joint Medical Work Station</b>
<b>PDHRA</b>	<b>Joint Patient Tracking Application</b>
<b>TRAC2ES</b>	<b>Medical Analysis Tool</b>
<b>VSIMS</b>	<b>Medical Data Surveillance System</b>
	<b>Post-Deployment Health Re-Assessment</b>
	<b>TRANSCOM Regulating and Command &amp; Control</b>
	<b>Evacuation System</b>
	<b>Veterinary Services Information Management System</b>



# TMIP Block 1 Functionality

- Medical Command & Control
- Medical logistics
- Blood management
- Immunization tracking
- Medical record generation (SF600)
- Structured text clinical encounter
- Symptomology
- Battle injuries, DNBI
- Sick call & physical
- Post deployment surveys
- Consult generation (SF513)
- ICD-9 coding scheme
- Occupational health/radiation exposure
- Lab results
- Automated medical reference/library
- Status reporting



# TMIP Block 1

## Support of Deployed Forces

- **Deployed at the following locations:**

- 8th Medical Brigade
- Navy Fleet Hospital
- 601st Area Support Medical Company
- 602nd Area Support Medical Company
- Qatar Strategic Clinic
- Kuwait Strategic Clinic
- 2nd Medical Brigade
- 1 Stryker Brigade
- 2 Combat Support Hospitals
- 118th Area Support Medical Battalion
- 6 Forward Surgical Teams



# TMIP Block 2 Capabilities

- Release 1: Available for Service Testing May 2005
  - **Improved Medical Surveillance**
  - **Enhanced Medical Command and Control**
  - **Enhanced Healthcare Encounter Documentation**
    - **Initial Inpatient Care Documentation**
    - **Ancillary Capabilities**
    - **Drug to Drug Interaction and Allergy Alerts**
- Release 2: Available for Service Testing May 2006
  - **Medical Logistics Functionality for Level III facilities**
  - **Patient Movement Item Tracking**
  - **Initial Occupational and Environmental Health Capability**
  - **Enhanced Healthcare Encounter Documentation**
    - **Optometric Documentation and Spectacle Requisitioning**
    - **Pharmacy Order Entry and Results Retrieval**
  - **SAMS Patient Encounter Module Conversion**
  - **GEMS Patient Encounter Module Conversion**



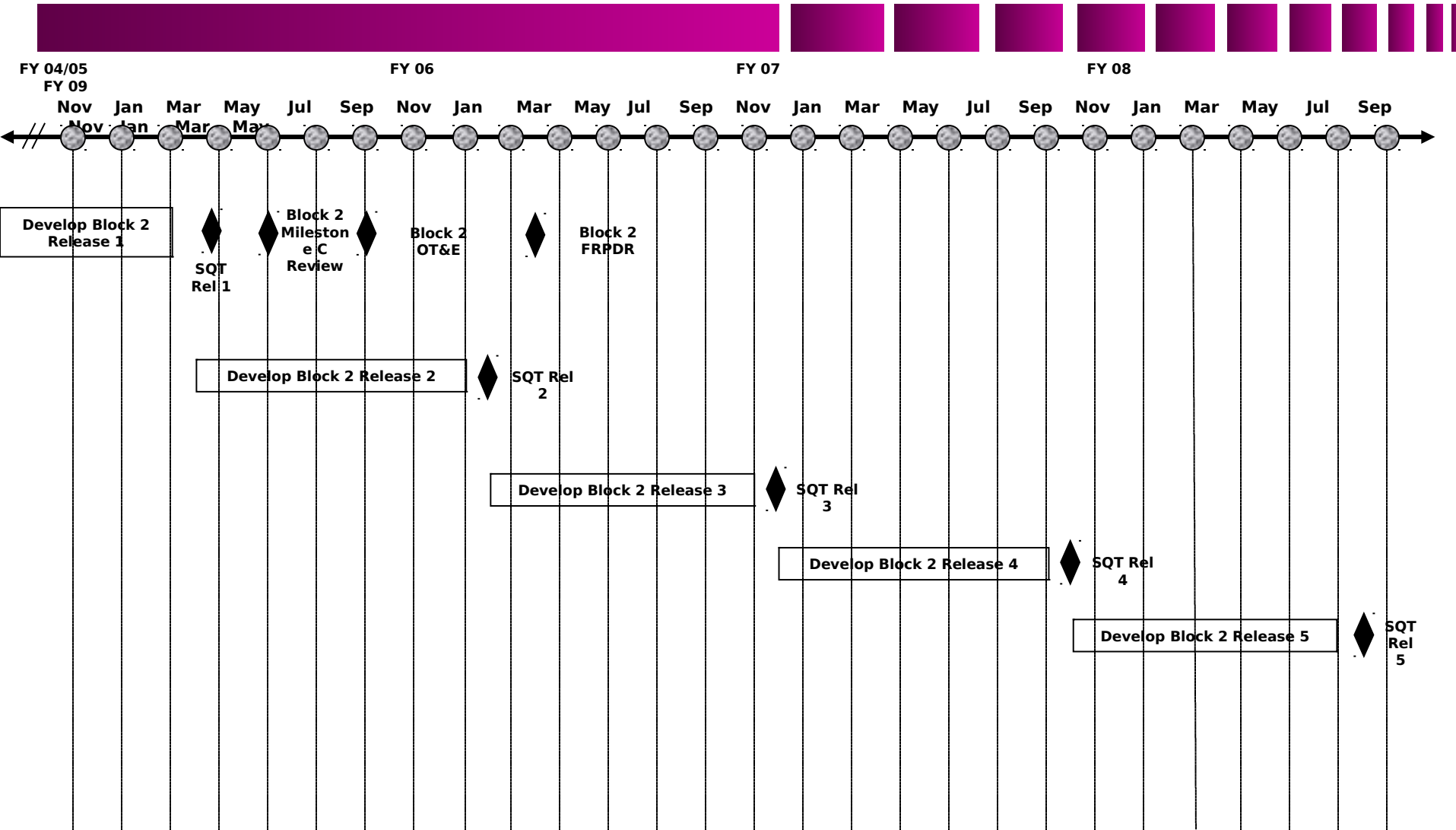
# TMIP Block 2 Capabilities (Cont'd.)

- Release 3: Available for Service Testing May 2007
  - **Initial Inter/Intratheater Medical Regulating**
  - **In-transit Patient Visibility**
  - **Enhanced Healthcare Encounter Documentation**
    - **Complete Inpatient Care Documentation**
    - **Initial Radiology Order Entry and Results Retrieval**
    - **Initial Laboratory Order Entry and Results Retrieval**
    - **Public Health Monitoring Capability**
    - **Dental Encounter Documentation**
- Releases 4 and 5: Available for Service Testing May 2008 and May 2009
  - **Complete Remaining CRD Requirements**
    - **Occupational and Environmental Health Capability**
    - **Laboratory Capability**
    - **Radiology Capability**
    - **Inter/Intratheater Medical Regulating**
  - **Complete Theater Data Standardization Initiative**
  - **Finalize IMeWS Medical Situational Awareness**





# TMIP Timeline Overview





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# Army IM/IT Systems

CDA	Corporate Dental Application
DTRS	Deployable Tele-Radiology System
ePPDHA	electronic Pre/Post Deployment Health
Assessment	
MEDPROS	Medical Protection System
PAD Tools	Patient Administration Tools
PARRTS	Patient Accounting and Reporting Real-time
Tracking	System
TAMIMIS	Theater Army Medical Management
Information System	
TCAM	TAMMIS Customer Assistance Module
TEWLS	TAMMIS Enterprise Wide Logistics System



# Navy IM/IT Systems



DENCAS	Dental Common Access System
ePPDHA-NEHC	electronic Pre/Post Deployment Health Assessment – Navy Environmental Health Center
HIV-N	HIV – Navy
ITS/NMO	Immunization Tracking System / Navy Medical Online
MRRS	Medical Readiness Reporting System
SAMS	Shipboard Automated Medical System



# Air Force IM/IT Systems



AFCITA	Air Force Complete Immunization Tracking Application
AFIOH-HIV Lab	Air Force Institute for Operational Health
GEMS	Global Expeditionary Medical System
MOMEDLOG	Mobile Medical Logistics
MRDSS Ultra	Medical Readiness Decision Support
PIMR	Preventive Health Assessment and Individual Medical Readiness
RCPHA	Reserve Component Periodic Health Assessment



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# ESOH IM/IT Infrastructure

**DOEHRS-IH T**

**Testing , Aug 05**

**Milestone C, Jun 06**

**Full Rate Deployment, Dec 06**



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# Other DoD Systems



**Defense Manpower Data Center (DMD)**

**Defense Enrolment Eligibility  
Reporting System (DEERS)**



***Questions?***



# OEHS Reporting Drivers



**DoDD 6490.2, Comprehensive Health Surveillance, 2**  
**DoDI 6490.3, Implementation and Application of Joint**  
**Surveillance for Deployments, 7 AUG 97**  
**USD (P&R) Memo, Enhanced Post Deployment Health**  
**Assessment, 22 Apr 03**  
**USD (P&R) Memo, Improved Occupational and Environ**  
**Health Surveillance Reporting and Archiving, 2**  
**JCS Memo, MCM 0006-02, Updated Procedures for D**  
**Health Surveillance and Readiness 1 Feb 02**  
**JCS Memo, Improved Occupational and Environment**  
**Health Surveillance Reporting and Archiving, 3**